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ABSTRACT

Information about the Delaware Educational Assessment Program and the performance of Delaware public school students during 1986-87 as measured by a nationally-normed standardized achievement test are presented. The presentation is designed for use by the educational community and the general public. Program features include: (1) statewide standardized testing in grades 1 through 8 and 11 in reading, English, and mathematics; (2) supplemental testing in science and social studies for 11th graders; (3) reporting of individual achievement progress to parents (4) calculation of test data at the school, district, and state levels by grade and subject area; and (5) analysis of test results by school district staff and the development of a plan to remedy identified weaknesses. Student performance data are used for diagnosis of individual student strengths and weaknesses, placement of students in instructional groups or programs, guidance and counseling, identification of curricular and instructional weaknesses, instructional planning, program evaluation, and implementation of research studies. The program initially used the California Achievement Tests, but in 1983-84 adopted the Comprehensive Tests of Basic Skills. Results from 1986-87 are presented by content area, high school program type, and selected other factors. District average scores for reading, language, mathematics, and total battery are presented by grade level. Fourteen data tables and 10 graphs are included. (TJH)

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DELAWARE EDUCATIONAL ASSESSMENT PROGRAM

STATEWIDE TEST RESULTS Summary Report

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STATE OF



DELAWARE

DEPARTMENT OF PUBLIC INSTRUCTION

I am pleased to present the summary results of the Spring Delaware Educational Assessment Program. State Board of Education is committed Delaware providing a quality education for each student in Delaware's public school system. this Central to commitment is the need to assess and examine the performance of the public schools and their pupils as the basis for initiating constructive change in the educational system.

Through the assessment program, information is also provided to the schools about how well Delaware public school students perform important basic skills, and to parents about how well their children perform compared to other students in the nation, the state and in their local school district.

We are pleased with the test results shown in this summary report for the school year 1986-87. The results in each content area and at each grade level tested demonstrate that the average Delaware student is performing above the national average. The continuing trend of improvement in achievement results is encouraging and serves as an indicator of the quality of our educational program. Identification of specific strengths and weaknesses in the basic skill areas will allow Delawareans to build upon existing strengths and to focus resources on identified needs. In this way, the goal of providing a quality education for each student may be reached.

William Skeene

William B. Keene State Superintendent Delaware Department of Public Instruction



ACKNOWLEDGEMENTS

The success of the Delaware Educational Assessment Program is due to the cooperative efforts of many individuals in the Department of Public Instruction and in the school districts. Department of Public Instruction staff in the Planning, Research, and Evaluation Division responsibility for the program include Thumas V. Soltys, State Supervisor of Educational Assessment; Kaye McCann, State Specialist of Educational Assessment; Alice L. Valdes, State Supervisor of Educational Planning; and Gail R. Truxon, Secretary. This report was compiled through the combined efforts of the above listed staff members.

Recognition is extended to District Test Coordinators for time and energy devoted to implementing the Delaware Educational Assessment Program. Those who served in this capacity during the 1986-87 administration of the program include:

DISTRICT TEST COORDINATORS

Howard Gaines, Appoquinimink
Joseph Price, Brandywine
George Benner, Caesar Rodney
Edward Schaefer, Cape Henlopen
Joseph Crossen, Capital
Robert Biyelow, Christina
Richard Bulls, Colonial
Margaret Clayton, Delmar
Judith Cullen, Indian River

Arthur Gilbert, Lake Forest William Long, Laurel Charles Moses, Milford Edward Barnett, NCC Voc-Tech. William Wallace, Red Clay Stephen Schwartz, Seaford Wayne Barton, Smyrna David Winski, Woodbridge

Recognition is also extended to all school coordinators and teachers/examiners in each school within the State for their extensive involvement with the Delaware Educational Assessment Program in administering the assessment instruments and using the test results in educational improvement activities.

Wilmer E. Wise, State Director Planning, Research, and Evaluation Divison



INTRODUCTION

The purpose of this report is to provide the education community and the general public with information about the Delaware Educational Assessment Program and the performance of Delaware public school students as measured by a nationally-normed standardized achievement test. This section of the report provides background information on the program and a description of the assessment instruments used to measure the academic achievement of Delaware public school students.

CHARACTERISTICS OF THE DELAWARE EDUCATIONAL ASSESSMENT PROGRAM

The Delaware Educational Assessment Program is administered by the Planning, Research, and Evaluation Division of the Department of Public Instruction. The division is responsible for managing the assessment program including annual test administration, scoring, and reporting of results. Some of the more important features of the program include:

- Statewide standardized testing in grades 1 through 8 and 11 in the content areas of reading, English, and mathematics
- Supplemental testing in Science and Social Studies in grade 11.
- Reporting of individual achievement progress to parents
- Calculation of test data at the school, district, and state levels by grade and subject area
- Analysis of test results by school district staff and the development of a plan to remedy identified weaknesses



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Relative to this last feature, the State Superintendent of Public Instruction provides a detailed report to the Delaware General Assembly each year. This report which will be available in the Fall of 1987 includes individual school results, local district analyses of strengths and weaknesses, and district plans to remedy identified areas of weakness.

UTILITY OF THE DELAWARE EDUCATIONAL ASSESSMENT PROGRAM

The Delaware Educational Assessment Program strives to be responsive to the needs of students, teachers, and administrators in order to improve the quality of education received by each student. To this end, student performance data is useful for:

- diagnosing individual pupil strengths and weaknesses
- placing students in instructional groups or programs
- guidance and counseling
- identifying curricular and instructional weaknesses
- instructional planning
- evaluating programs
- conducting research studies

The Delaware Educational Assessment Program is much more than a testing program. It also undertakes activities to increase the usefulness of test data. To this end, the program:

 provides training to school personnel in the use and interpretation of test data in curriculum and instructional improvement



- supports a computerized system for school personnel for immediate access to and use of test data for program management and evaluation
- produces reports for classroom teachers organized by current homeroom or instructional group. These reports are especially useful at the beginning of the school year in analyzing the strengths and weaknesses of students entering new classrooms. In 1986-87, approximately 59 schools requested special reports for their teachers. In addition, at least 2 districts now have staff who are able to generate special reports for their teachers locally.

PROGRAM IMPLEMENTATION

For the first five years of its existence, the Delaware Educational Assessment Program administered the California Achievement Tests (CAT), normed in 1977. In the 1983-84 school year, a new test battery, the Comprehensive Tests of Basic Skills (CTBS), was administered for the first time. Norms for this test were established in the school year 1980-81. The CTBS has two parallel forms, U and V. Form U was administered in 1983-84 and 1984-85. Form V was used in 1935-86 and again this year.

In 1986-87, the CTBS battery was administered statewide during the period of March 16-27, 1987. Approximately 61,000 Delaware public school students in grades one through eight and eleven were tested in reading, language arts, and mathematics. In addition, science and social studies were tested at grade eleven.

The statewide testing program includes all regular and special education students with the exception of students in special schools or intensive learning centers. Students excepted are those with severe handicapping conditions, non-English speaking students, and those who display severe over reactions to testing situations.



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Results for this year's test given <u>in this</u> report are average scores for regular and special education students combined.

While the Delaware Educational Assessment Program staff is responsible for managing test administration, scoring, and reporting, the responsibility for carrying out the program rests with all levels of the professional education. Each school district designates community. coordinator to organize and coordinate testing within the district. In each building a professional staff member is responsible for supervising testing. In most cases. teachers serve as test examiners and proctors. crucial educators are to the successful implementation of the statewide testing program.

CHARACTERISTICS OF THE COMPREHENSIVE TESTS OF BASIC SKILLS

The Comprehensive Tests of Basic Skills (CTBS) is a series of nationally-normed standardized tests published by CTB/McGraw-Hill. The CTBS was normed during the 1980-81 school year on a representative national sample of over CTBS. 250.000 students. The ٧, which Form administered this year, contains from 145 to 380 test grade in reading. language mathematics. In grades one through three, students record their responses directly in the test booklets, while students in grades four through eight and eleven receive test booklets with separate answer sheets. The content areas assessed by the CTBS in each grade are shown in Table 1.



TABLE 1 CONTENT AREAS TESTED BY THE COMPREHENSIVE TESTS OF BASIC SKILLS

Content Area	Grades Tested
Reading	
Word Attack	1 - 3
Reading Vocabulary	1 - 8, 11
Reading Comprehension	1 - 8, 11
Language	
Language Expression	1 - 8, 11
Language Mechanics	2 - 8, 11
Spelling	2 - 8, 11
Reference Skiïls	4 - 8, 11
Mathematics	
Mathematics Computation	1 - 8, 11
Mathematics Concepts and	
Applications	1 - 8, 11
Science	11
Social Studies	11

Reading section of the CTBS includes Reading Vocabulary and Reading Comprehension. In this publication the Word Attack subtest for grades one through three is shown in the Reading section. However, the Word Attack and not included average is reported separately computing the Total Reading average or in the Total Battery average. The Language section is composed of only Language Expression at grade one and Language Mechanics and Language Expression at all other grade levels. this publication the Spelling subtest and the Reference Skills subtest are shown in the Language However, these subtests are reported separately and not included in computing the Total Language average score.



Mathematics Computation and Mathematics Concepts and Applications comprise the Mathematics section of the Comprehensive Tests of Basic Skills. Science and Social Studies are included at the eleventh grade level only.

REPORTING AND INTERPRETATION OF SCORES

Student responses to the CTBS test were machine scored and analyzed. Computer reports were then generated at the individual pupil, school, district, and state levels. Student, school, and district level reports were returned to Delaware educators before the end of the school year and are available over the summer months for instructional planning. Reports to parents and teachers provide performance data for individual students while reports for principals, district administrators, and state administrators provide data for groups of students.

The score used within this report is called the Normal Curve Equivalent (NCE). The NCE is a standard score scale with a national average of 50 and a range of scores from 1 to 99. This scale was selected because it enables comparisons to be made between different subtests and to the national average for all grades tested. When reading and interpreting district and state averages provided in this report, scores can be put in perspective by comparing the test score to the national average. Average scores higher than 50 are above the national norm.



Although only NCE scores are reported in this publication, the reports made available to parents and education personnel contain a variety of scores. For example:

<u>Reports to Parents</u>. These reports show percentile scores at the district, state, and national level, allowing parents to compare their child's test performance with that of a norming group. Parents also receive a graphic report which tracks their child's growth in achievement over the past several years.

School Rosters. These reports provide teachers and administrators with a variety of indicators of individual achievement. Scores included on this report are the raw score, the grade equivalent score, the normal curve equivalent, and percentile scores at the national, state, and district levels.

<u>Evaluator's Summary Reports</u>. These reports provide, in condensed form, an analysis of the scores obtained at the school, district, and state level for each grade tested. These reports not only provide average scores by content area, but also provide data by quartile.

Frequency Distribution Reports. Provided at the school, district, and state levels these reports give administrators an idea of the range and distribution of student achievement levels with which they must deal.

<u>Item Analysis Reports</u>. These reports, provided at each level of aggregation, allow administrators to analyze instructional strengths and areas of need at the group level.



1987 ASSESSMENT INFORMATION

STATE RESULTS BY CONTENT AREA

Delaware students as a whole (regular and special education combined) performed above the national average in all content areas at all grade levels as shown in Table 2. Generally, students in the primary grades obtained higher scores than those in the upper grades.

Reading. Statewide averages for Total Reading and its two component subtests (Reading Vocabulary and Reading Comprehension) were above the national average at all grades tested. At the upper grades, Reading Comprehension scores exceeded Reading Vocabulary scores, while students in the primary grades generally scored higher in Reading Vocabulary. Total Reading scores were lower than Total Language scores and Total Mathematics scores at all grades tested.

Language Arts. Statewide averages for Total Language and its component subtests of Language Mechanics and Language Expression were above the national average at all grades tested. While students in grades 2 through 6 scored higher on the Language Mechanics subtest, students in grades 7, 8 and 11 scored higher on the Language Expression subtest. Total Language accres were higher than Total Reading scores at all grades ested.

Mathematics. Statewide averages for Total Mathematics and its component subtests of Mathematics Computation and Mathematics Concepts and Applications were above the nationa? average at all grades tested. With the exception of grades 1 and 4, scores for Mathematics Computation exceeded scores for Mathematics Concepts and Applicacions. In all grades tested, Total Mathematics scores were higher than Total Reading scores. Total Mathematics scores exceeded Total Language Scores at all grades except 3 and 11.



<u>Science and Social Studies</u>. Delaware students in grade 11 scored above the national average in both the Science and Social Studies tests. No subtest scores are available.

Summary. While average Delaware student performance was above the national average at all grade levels in all content areas, performance was generally higher Mathematics and Language than in Reading. Higher average scores were reported in the primary grades. Generally, these trends across subtests and grades are identical to those reported in the 1985 and 1986 Statewide Test Results Reports. More detailed component objective data are shown in Tables 10-14 in the Appendix by content area. Entries labered percent correct are averages of the percentage of students responding correctly to each of the items testing the category objective. These data are for combination of Delaware regular and special education students and for the national sample.

TABLE 2
AVERAGE SCORES FOR DELAMARE STUDENTS, 1987

				G:á	ues				
Content Areas	1	2	3	4_	5_	6_	7_	8	11
Word Attack	55.5	59.9	61.7						_
Reading Vocabulary	57.5	59.3	55.2	57.7	55.3	56.1	53.4	53.4	51.0
Reading Comprehension	55.8	58.5	57.1	56.4	53.3	55.3	56.7	57.8	54.2
TOTAL READING	57.1	59.5	57.0	57.9	54.0	55.9	55.3	56.1	53.6
Spelling		64.4	64.3	57.0	55.1	56.4	57.2	58.2	61.2
Reference Skills				57.8	57.1	58.5	57.4	59.8	52.3
Language Mechanics		65.6	70.6	61.1	57.8	58.6	56.0	56.5	58.0
Language Expression	60.5	60.9	63.0	58.8	57.2	58.2	59.5	60.8	58.5
TOTAL LANGUAGE		65.2	68.0	59.6	58.6	61.0	57.5	58.2	59.3
Math Computation	56.3	68.9	63.3	61.1	64.7	64.0	61.2	60.6	57.2
Math Concepts and									
Applications	67.6	64.7	63.1	62.2	59.1	59.3	58.2	56.8	55.2
TOTAL MATH	62.9	70.7	64.8	61.8	63.2	64.1	59.4	59.0	56.9
TOTAL BATTERY		64.4	65.9	60.0	57.3	61.0	57.2	57.2	57.7
Science									57.9
Social Studies									59.6

 $\mbox{\sc MOTE:} \quad \mbox{\sc Score} \quad \mbox{\sc Feported} \quad \mbox{\sc is} \quad \mbox{\sc So.0.}$



STATE RESULTS BY CURRENT HIGH SCHOOL PROGRAM

Students in grade 11 were asked to classify their current high school program as either college preparatory, vocational, or general. Over three-fourths of all grade 11 students tested provided the requested information. Of those students who responded, 55% classified their program as college preparatory, 26% classified their program as vocational, and 19% selected the general classification. Based on these responses, Table 3 provides average test scores by content area for grade 11 students in these three programs.

TABLE 3

AVERAGE SCORES FOR DELAWARE GRADE 11 STUDENTS BY PROGRAM SPRING 1987

	College		
Content Areas	Preparatory	Vocational	General
Total Reading	63.1	44.3	40.2
Total Language	68.1	51.9	45.6
Total Mathematics	66.6	47.1	43.2
Total Battery	67.6	48.2	42.8
Science	67.8	48.9	43.4
Social Studies	68.9	51.0	45.9

NOTE: Score is the Normal Curve Equivalent which has a national average of 50.0.



DISTRICT RESULTS

District average scores for Reading, Language, Mathematics, and Total Battery are presented by grade level in Tables 5 through 8. Table 9 shows district average scores for Science and Social Studies for grade 11 students. The comparison of average district performance to national norms and the identification of trends in performance help local school officials detect strengths and weaknesses in their district educational programs.

Differences between district test averages should be reviewed in light of important factors which interact to make each district unique. Factors to be considered in this review may include background characteristics of the students within the school, the match between curriculum objectives and the objectives assessed by the test, student mobility, dropout rate, student ability, local curriculum priorities, available financial resources, and the percentage of eligible students actually tested. Some of these factors are shown in Table 4.



TABLE 4 SOME FACTORS THAT INFLUENCE DISTRICT TEST AVERAGES 1986-87 SCHOOL YEAR

			Oropout	Current Expenditures Per Pupil*
		% Special	Rate*	(Excludes
	% Free or	Education	(Grades	Special
<u>Oistrict</u>	_Reduced_Lunch*	Students**	9-12)	Schools)
STATE	39.1	11.3	7.6	\$4,219
Appoquinimink	19.3	11.3	6.9	\$3,600
Brandywine	36.5	9.8	6.4	\$4,184
Caesar Rodney	38.7	8.9	8.1	\$3,123
Cape Henlopen	34.7	13.1	3.9	\$3,743
Capital	35.7	9.7	7.9	\$3,602
Christina	48.2	13.0	9.6	\$3,821
Colonial	37.3	11.2	12.5	\$4,030
Delmar	26.5	6.2	4.9	\$3,884
Indian River	38.4	11.7	5.4	\$3,119
lake Forest	38.5	12.5	7.1	\$3,318
Laurel	36.0	7.0	9.8	\$3,250
Milford	36.1	11.4	9.4	\$3,133
NCC Voc-Tech.	37.7	15.0	3.2	\$5,546
Red Clay Cons.	46.1	11.2	9.1	\$4,304
Seaford	35.0	10.4	7.0	\$3,349
Smyrna	25.4	9.7	8.4	\$3,132
Woodbridge	45.3	14.9	5.6	\$3,389

^{*} Is the most current data available, 1985-86 school year



^{**} Reflects the 1986-87 school year

TABLE 5 READING AVERAGE NCE SCORES FOR DELAMARE SCHOOL DISTRICTS*

					Grad	es			
<u>District</u>	1	2	3	4	5	6	7	8	11
STATE	57.1	59.6	57.0	57.9	54.0	55.9	55.3	56.1	53.6
Appoquinimink	58.1	62.0	56.4	55.8	59.1	55.6	55.7	54.4	50.3
Brandywine	61.5	62.8	60.3	61.3	56.2	58.1	57.9	57.0	59.2
Caesar Rodney	55.4	58.8	55.8	57.9	54.5	58.2	55.0	56.9	55.3
Cape Henlopen	61.8	64.0	60.0	60.5	59.4	60.6	57.7	58.4	53.8
Capital	52.0	55.3	53.8	56.9	52.7	52.6	54.1	54.0	53.4
Christina	57.1	60.3	58.1	58.2	54.2	55.7	54.6	57.4	54.1
Colonial	55.5	60.3	56.4	55.3	51.9	51.8	52.4	54.4	50.7
Delmar	_	-	-	-	-	-	57.3	57.3	51.2
Indian River	62.0	58.4	56.6	57.9	51.0	58.9	55.6	55.5	48.7
Lake Forest	58.1	61.4	52.9	57.8	53.1	54.9	54.6	54.9	51.5
Laurel	57.3	56.9	52.9	56.1	52.6	50.9	51.1	52.2	51.4
Milford	50.8	55.8	54.0	57.7	53.0	58.8	57.1	57.4	56.7
NCC Voc-Tech.	-	-	-	_	-	-	-	-	47.8
Red Clay Cons.	55.0	58.5	57.3	57.8	54.1	55.3	56.4	57.0	56.7
Seaford	58.0	55.3	55.5	56.9	53.5	53.3	53.8	54.3	49.6
Smyrna	60.5	55.7	58.2	57.3	53.5	58.8	55.0	56.0	50.2
Woodbridge	54.2	58.4	54.3	55.8	55.2	57.1	56.5	54.9	52.3

^{*} The national average Hormal Curve Equivalent score is 50.0.

TABLE 6 LANGUAGE AVERAGE NCE SCORES FOR DELAMARE SCHOOL DISTRICTS*

	_				Grad	es			
District		2	3	4	5_	6	7	8	11_
STATE	-	65.2	68.0	59.6	58.6	61.0	57.5	58.2	59.3
Appoquinimink	-	64.5	66.3	57.8	64.4	58.5	56.7	55.5	55.7
Brandywine	-	66.9	70.2	62.4	59.3	63.3	58.7	58.4	62.4
Caesar Rodney	-	65.2	ა6.0	61.2	59.0	63.4	57.8	57.7	58.7
Cape Henlopen	-	69.1	69.5	63.6	62.5	66.1	59.6	60.7	60.8
Capital	-	61.0	64.6	57.9	57.3	56.7	56.5	54.9	58.8
Christina	-	67.0	70.0	59.4	59.6	61.7	57.3	58.8	56.4
Colonial	-	65.3	67,.6	56.4	55.7	55.3	54.1	56.1	58.7
Delmar	-	-	_	-	-	-	53.1	54.1	59.3
Indian River	-	66.4	70.7	63.8	58.5	67.3	59.5	60.2	59.3
Lake Forest	-	66.6	65.3	57.3	57.8	62.2	56.7	59.4	60.5
Laurel	_	63.7	65.1	56.8	61.4	58.5	54.1	57.7	58.0
#ilford	-	59.8	65.3	59.6	57.2	64.7	61.1	61.9	64.1
NCC Voc-Tech.	-	_	-	-	-	-	-	- '	56.0
Red Clay Cons.	-	64.8	67.2	58.3	57.8	60.0	59.0	59.7	62.9
Seaford	-	61.1	69.2	57.4	58.7	60.4	56.3	57.2	56.8
Smyrna	-	61.8	68.8	58.5	58.6	59.9	57.1	55.8	56.1
Woodbridge	_	64.3	59.2	59.7	58.3	57.8	56.1	54.2	57.1

^{*} The national average Normal Curve Equivalent score is 50.0.



TABLE 7 MATHEMATICS AVERAGE NCE SCORES FOR OELAWARE SCHOOL DISTRICTS*

					Grad	es			
District	1	2	3	4	5	6	7	8	11
STATE	62.9	70.7	64.8	61.8	63.2	64.1	59.4	59.0	56.9
Appoquinimink	62.5	73.0	61.8	61.8	69.1	61.6	56.4	56.9	52.2
Brandywine	66.3	74.1	68.D	65.1	65.6	67.3	62.7	59.4	61.2
Caesar Rodney	60.6	71.6	65.5	60.7	61.5	67.8	60.5	62.8	59.7
Cape Henlopen	66.6	72.3	68.2	67.6	69.6	70.4	62.9	59.7	59.3
Capital	53.4	64.8	60.7	60.3	62.7	58.5	56.2	54.2	58.1
Christina	61.7	70.5	64.9	61.1	63.5	63.0	57.4	60.2	57.6
Colonial	63.7	72.1	62.7	58.9	59.4	57.9	56.7	54.0	54.2
Delmar	-	-	-	-	-	-	60.1	57.0	53.7
Indian River	65.6	68.9	64.3	62.2	63.7	73.1	62.4	59.9	52.5
Lake Forest	67.2	75.1	62.7	61.9	62.4	63.0	61.3	62.5	54.1
Laurel	63.0	70.1	62.8	62.0	63.8	63.8	55.5	55.6	51.9
Milford	59.3	72.6	63.6	63.5	67.0	68.0	66.2	66.2	63.9
NCC Voc-Tech.	-	-	-	-	-	-	-	-	51.4
Red Clay Cons.	64.5	70.7	64.7	61.1	61.3	62.3	59.2	59.8	59.4
Seaford	62.5	64.3	67.2	59.0	66.6	61.0	58.8	56.9	50.9
Smyrna	62.5	62.1	67.3	59.2	58.6	70.3	59.6	59.4	53.5
Woodbridge	60.4	75.7	63.7	65.5	64.0	62.5	58.6	55.6	51.5

^{*} The national average Normal Curve Equivalent score is 50.0.

TABLE 8
TOTAL BATTERY
AVERAGE NCE SCORES FOR
OELAWARE SCHOOL DISTRICTS*

					Grad	es			
District		2	3	4	5	6	7	8	11
STATE		64.4	65.9	60.0	57.3	61.0	57.2	57.2	57.7
Appoquinimink	_	65.6	63.6	58.4	63.1	59.3	56.2	54.6	52.9
Brandywine	-	67.5	69.4	63.6	59.2	63.8	59.7	57.9	62.4
Caesar Rodney	-	64.1	64.5	60.2	57.2	64.0	57.2	57.7	58.4
Cape Henlopen	-	68.2	68.9	63.9	62.6	66.3	59.7	53.1	58.6
Capital	-	59.1	61.7	58.6	56.0	56.2	55.5	53.8	57.4
Christina	-	65.0	67.0	59.7	57.9	60.9	56.5	58.4	57.2
Colonial	-	65.4	64,7	57.0	54.3	55.1	53.8	54.5	55.5
Delmar	~	-	-	-	-	-	55.7	55.1	56.3
Indian River	-	64.1	66.7	61.9	56.0	66.7	59.0	58.2	54.6
Lake Forest	-	68.0	62.2	59.0	56.3	60.4	56.9	58.6	56.2
Laurel	-	62.3	62.5	58.1	58.5	57.9	52.8	54.2	55.0
Milford	-	61.4	62.8	60.2	57.0	64.7	61.3	60.7	62.4
NCC Voc-Tech.	-	-	-	_	-	-	-	-	52.3
Red Clay Cons.	-	63.9	65.9	59.4	56.8	60.1	58.4	58.6	61.3
Seaford	-	59.1	66.7	58.4	58.0	58.8	55.7	55.4	53.9
Smyrna	-	5°.6	67.5	58.6	56.1	64.5	57.6	57.2	53.7
Woodbridge	-	66.8	61.2	61.1	58.0	59.7	56.6	54.2	55.1

^{*} The national average Normal Curve Equivalent score is 50.0.



TABLE 9 SCIENCE AND SOCIAL STUDIES AVERAGE NCE SCORES FOR DELAWARE SCHOOL DISTRICTS*

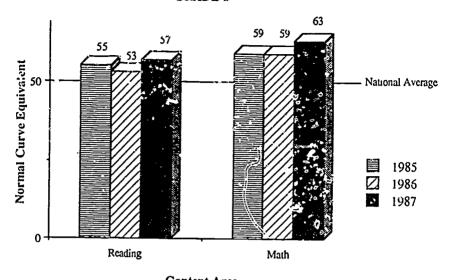
		Social
	Science	Studies
District	11	11
STATE	57.9	59.6
Appoquinimink	56.1	57.7
Brandywine	62.1	64.6
Caesar Rodney	60.8	61.4
Cape Henlopen	57.8	61.1
Capital	57.8	58.8
Christina	58.9	60.7
Colonial	55.7	55.5
Delmar	58.0	64.9
Indian River	54.0	55.6
Lake Forest	57.8	60.7
Laurel	53.9	58.7
Milford	59.3	62.4
NCC Voc-Tech.	53.5	54.2
Red Clay Cons.	60.5	60.4
Seaford	52.0	56.6
Smyrna	53.2	55.6
Woodbridge	55.0	60.2

^{*} The national average Normal Curve Equivalent score is 50.0.

THREE YEAR COMPARISON OF STATE RESULTS

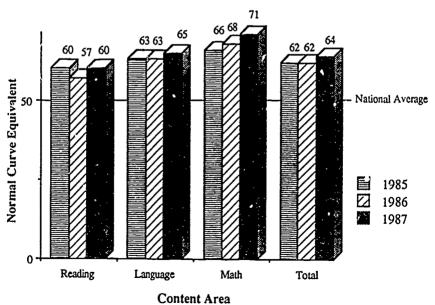
One of the important goals of the state assessment program is to monitor year-to-year achievement progress. The following graphs by grade compare average test scores for 1985, 1986, and 1987. The score used is the Normal Curve Equivalent (NCE) score rounded to the nearest whole number. The national average NCE score of 50 is indicated on the graphs.



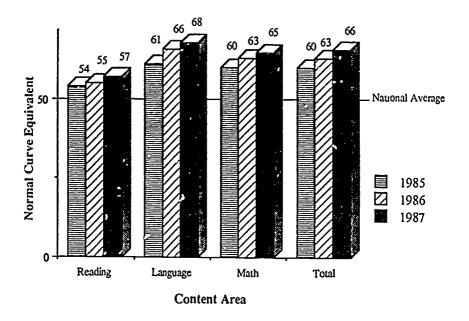


Content Area

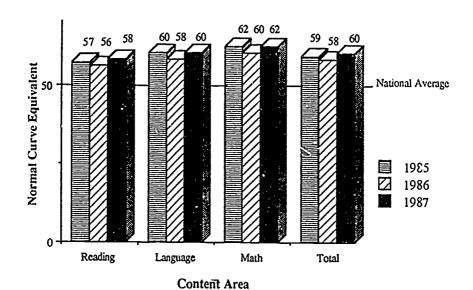
GRADE 2



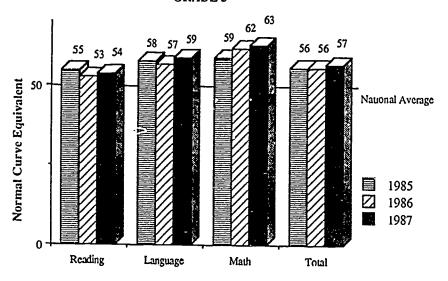




GRADE 4

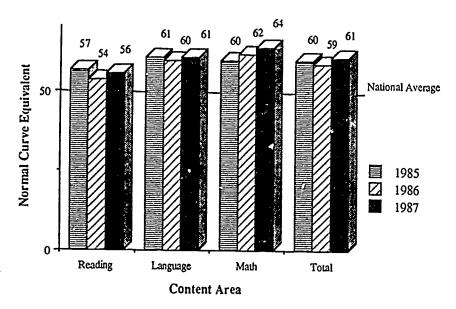






Content Area

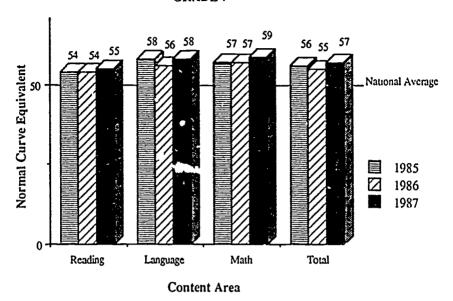
GRADE 6



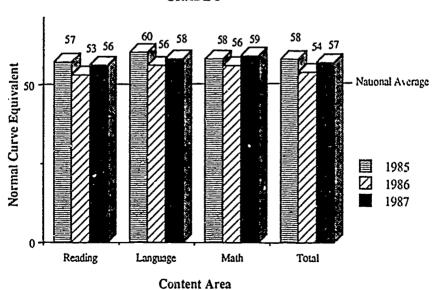


21 . . . 24

GRADE 7

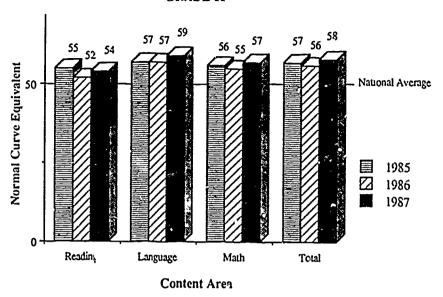


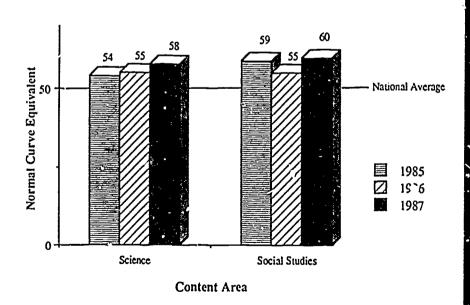
GRADE 8





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APPENDIX



TABLE 10 PERCENT OF CORRECT RESPONSES BY ITEM DELAWARE/NATIONAL SAMPLE READING SPRING 1987

_				Grad					
Category	1	2	3	4	5	6	7	8	- 11
Objective	DE/NAT	DE/HAT	DE/NAT	DE/HAT	DE/NAT	DE/NAT	DE/NAT	DE/HA*	_DE/NAT
ORD ATTACK									
Initial Consonant	91/82								
Final Consonant	84/69								
Cluster/Digraph Hords	88/75	97/93							
Sight Hords	86/11	92/83							
Medial Youels Diphthongs/Variant	68/58	79/65	78/59						
Vovels		62/45	65/50						
Syllables/Roots/Affixes		83/64	89/66						
Campounds/Camponents		96/71	83/70						
Contractions			78/61						
READING YOCABULARY									
Oral Categories/Nords	69/55						•		
Oral Definitions/Mords	82/69								
Same Meaning	69/57	80/64	74/66	75/63	68/60	77/70	66/59	74/65	68/66
Unfamiliar Words in									
Context	79/64	83/71	88/19	81/72	81/71	88/90	73/61	80/68	16/13
Multimeaning Words			79/66	78/68	62/54	75/65	65/57	72/64	67/58
Missing Words in Context				66/63	64/62	77/71	66/64	75/71	71/72
Meaning of Affixes				79/68	78/66	83/74	70/69	75/75	75/74
READING COMPREHENSION									
Sentence Meaning	84/73								
Passage Details	52/46	81/71	78/73	75/62	65/62	74/70	70/62	76/68	69/67
Character Analysis	62/54	73/59	79/69	79/68	74/71	80/78	73/63	78/71	87/85
Main Idea		71/56	12/64	80/68	73/66	80/73	70/59	76/66	78/75
Generalizations		65/50	81/72	12/60	74/67	80/74	66/59	74/66	80/78
Written Forms			85/55	76/61	71/64	79/71	65/53	73/61	70/63
Writing Techiques				79/71	54/50	65/58	68/64	76/71	70/65

^{*} This table shows the percent of Delaware students responding correctly to an item compared to the percent of students in a national sample responding correctly to the same item.



TABLE 11 PERCENT OF CORRECT RESPONSES BY ITEM DELAWARE/NATIONAL SAMPLE LANGUAGE

SPRING 1987

				G	rades				
Category	1	2	3	4	5	6	7	8	11
Objective	0E/NAT	DE/KAT	DE/NAT	DE/NAT	DE/NAT	DE/HAT	DE/NAT	DE/NAT	DE/4A
LANGUAGE MECHANICS									
CAPITALIZATION									
Pronous I/Nouns/									
Adjectives		82/59	84/61	80/70	79/64	84/69	63/50	69/55	74/64
Beginning Words/									
Titles		91/73	93/14	13/52	57/41	62/48	61/56	67/62	65/61
PUNCTUATION									
Period/Question Mark	,								
Exclamation Point/									
Comma		82/67	87/61	13/63	68/60	76/66	70/60	76/65	70/65
Quotation Marks				69/50	72/61	78/69	84/71	89/75	
Colon/Semicolon									61/46
PUNCTUATION AND CAPITAL	HOTTAS								
Editing Skills				77/63	74/63	80/69	60/55	65/61	74/65
ANGUAGE EXPRESSION									
USAGE									
Nouns	86/77	93/84	67/58	56/62					
Pronouns		93/81	93/70	92/83	94/88	95/91	65/58	66/61	47/39
Verbs	68/56	81/70	92/80	87/76	75/69	79/73	19/12	82/76	16/12
Adjectives/Adverbs	78/65	85/71	89/65	89/75	76/71	83/17	83/71	87/76	91/84
SENTENCE STRUCTURE									
Sentence Patterns	86/72	94/80							
Sentence Formation	69/55	87/12	81/61	65/46					
Sentence Recognition				19/64	82/68	85/74	82/65	85/70	12/60
ARAGRAPH ORGANIZATION									
Sentence Combining				82/70	80/72	86/77	69/59	76/64	80/70
Topic Sentence				70/56	63/53	70/60	65/50	73/56	80/65
Sequence				11/63	76/67	82/73	72/62	78/67	75/69
Clarity					70/60	77/68	73/62	78/67	76/66
Types of Writing Styl	•						69/57	77/63	71/63

^{*} This table shows the percent of Delaware students responding correctly to an item compared to the percent of students in a national sample responding correctly to the same item.



TABLE 12 PERCENT OF CORRECT RESPONSES BY ITEM DELAWARE/NATIONAL SAMPLE MATHEMATICS SPRING 1987

				6	rades				
Category	1	2	3	4	5	6	1	8	11
Objective	DE/NAT	DE/NAT	DE/NAT	DE/NAT	DE/NAT	0E/NAT	DE/NAT	DE/NAT	DE/NA
ATHEMATICS COMPUTATION									
Add Whole Numbers	79/69	90/75	81/65	75/66					
Add Decimals/Fractions				73/62	70/54	78/68	69/50	78/64	17/74
Subtract Whole Numbers	84/17	91/17	75/59	76/66					
Subtract Decimals/Frac.				68/57	74/48	84/65	66/46	76/59	81/76
Multiply Whole Numbers			79/64	78/65	78/60	86/76			
Multiply Decimals/Frac.					57/48	70/62	61/43	13/55	66/58
Oivide Whole Numbers			79/59	74/62	75/60	84/75			
Oivide Decimals/Frac.							65/51	75/61	69/66
Integers							38/36	55/45	71/57
Algebraic Expressions									65/47
Exponents or Percents									62/50
ATHEMATICS CONCEPTS AND AP	PLICATION	rs							
Numeration	86/70	19/66	80/68	76/64	72/58	81/69	63/52	74/63	78/75
Number Sentences			17/64	78/65	68/58	76/70	71/66	11/15	70/60
Number Theory			16/64	80/70	70/60	80/69	69/55	78/67	72/65
Problem Solving	77/58	83/62	81/63	80/70	68/59	77/71	68/55	74/64	68/64
Measurement		81/61	82/68	83/67	71/60	78/70	59/54	67/64	53/45
Geometry		88/69	83/65	16/63	63/53	72/62	73/63	80/12	69/63
Measurement/Geometry	81/66								

^{*} This table shows the percent of Delaware students responding correctly to an item compared to the percent of students in a national sample responding correctly to the same item.



TABLE 13 PERCENT OF CORRECT RESPONSES BY ITEM DELAWARE/NATIONAL SAMPLE SCIENCE SPRING 1987

	Grade
Category	11
<u>Objective</u>	DE/NAT
Botany	63/55
Zoology	80/74
Ecology	78/68
Physics	68/61
Chemistry	74/63
Land/Sea/Space	69/66

TABLE 14 PERCENT OF CORRECT RESPONSES BY ITEM DELAWARE/NATIONAL SAMPLE SOCIAL STUDIES SPRING 1987

	Grade
Category	11
Objective	DE/NAT
Geography	71/71
Economics	71/62
History	79/68
Political Science	77/65
Sociology	66/56
Interdisciplinary	72/60

^{*} This table shows the percent of Delaware students responding correctly to an item compared to the percent of students in a national sample responding correctly to the same item.



The complete report of the statewide testing program titled **DELAWARE EDUCATIONAL ASSESSMENT PROGRAM 1987 REPORT TO THE LEGISLATURE** will be available in November, 1987. It contains school, district and state results as well as analysis of strengths and weaknesses for each Delaware school district. To obtain a copy, contact the Planning, Research, and Evaluation Division of the Delaware State Department of Public Instruction, Townsend Building, Dover, DE 19903.

